

## Title (en)

CATALYTIC WASHCOAT WITH CONTROLLED POROSITY FOR NOX ABATEMENT

## Title (de)

KATALYTISCHE WASCHBESCHICHTUNG MIT KONTROLLIERTER POROSITÄT ZUR STICKOXIDREDUKTION

## Title (fr)

COUCHE D'IMPRÉGNATION CATALYTIQUE À POROSITÉ CONTRÔLÉE POUR RÉDUCTION DE NOX

## Publication

**EP 3634625 A4 20201028 (EN)**

## Application

**EP 18812886 A 20180608**

## Priority

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## Abstract (en)

[origin: WO2018225036A1] The present disclosure recognizes a correlation between zeolitic surface area (ZSA) of a catalyst composition and its catalytic activity. Particularly, the disclosure provides catalyst articles for diesel NOx abatement, including a substrate and a washcoat layer containing metal-promoted molecular sieves, wherein the zeolitic surface area (ZSA) of the catalyst article is about 100 m<sup>2</sup>/g or greater, the volumetric surface area is about 900 m<sup>2</sup>/in<sup>3</sup> or greater, and/or the total zeolitic surface area (tZSA) is about 1200 m<sup>2</sup> or greater. The disclosure further relates to methods for evaluating ZSA, volumetric ZSA, and tZSA, e.g., including the steps of coating a catalyst composition comprising metal-promoted molecular sieves onto a substrate; calcining and aging the catalyst composition; determining the ZSA (or volumetric ZSA or tZSA) thereof; and correlating the ZSA (or volumetric ZSA or tZSA) with catalyst composition NOx abatement activity to determine whether the catalyst composition is suitable for an intended use.

## IPC 8 full level

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## CPC (source: EP KR US)

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## Citation (search report)

No further relevant documents disclosed

## Citation (examination)

- US 2017120192 A1 20170504 - BROWN GAVIN MICHAEL [GB], et al
- See also references of WO 2018225036A1

## Designated contracting state (EPC)

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